

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number  
**WO 2005/058404 A1**

(51) International Patent Classification<sup>7</sup>: **A61M 25/00**

(21) International Application Number:  
PCT/SE2004/001287

(22) International Filing Date:  
8 September 2004 (08.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/529,763 17 December 2003 (17.12.2003) US  
0303387-5 17 December 2003 (17.12.2003) SE

(71) Applicants and

(72) Inventors: SKANSÉN, Jan [SE/SE]; Box 8, S-134 06  
Ingarö (SE). ULFENDAHL, Hans [SE/SE]; Rosenvägen  
37B, S-756 52 Uppsala (SE).

(74) Agent: DR LUDWIG BRANN PATENTBYRÅ AB; Box  
17192, S-104 62 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

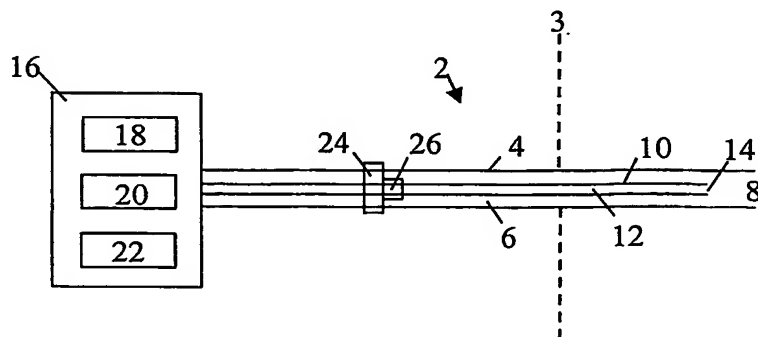
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: CATHETER DEVICE



(57) Abstract: Catheter device (2)  
for transcutaneous or subcutaneous  
administration of substances to a  
patient, comprising an outer catheter  
(4) provided with one outer catheter  
lumen (6) with a distal outer catheter  
outflow opening (8) and an inner  
catheter (10) provided with at least  
one inner catheter lumen (12) with at  
least one distal inner catheter outflow  
opening (14), said inner catheter is  
adapted to be detachably arranged in  
said outer catheter lumen. When the  
catheter device is adapted to be used  
for administration of substances to  
a patient, the inner catheter outflow

opening is located proximally said outer catheter outflow opening. The invention also relates to an infusion system including  
a catheter device and an external pumping device.

WO 2005/058404 A1